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INDEX V TO THE LITERATURE OF  
AMERICAN ECONOMIC ENTOMOLOGY



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TO THE  
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OF  
AMERICAN ECONOMIC  
ENTOMOLOGY

January 1, 1930 to December 31, 1934

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*Compiled by*  
MABEL COLCORD

*Edited by*  
E. PORTER FELT



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## INTRODUCTORY

This is a continuation of Indexes I to IV of American Economic Entomology, a series continuing the earlier bibliographies by Samuel Henshaw and Nathan Banks. The preceding Indexes were prepared with the cooperation of Dr. L. O. Howard and Dr. C. L. Marlatt, Chiefs of the Bureau of Entomology during the periods of their preparation. This Index has been made possible by the cooperation of Mr. Lee A. Strong, Chief of the Bureau of Entomology and Plant Quarantine, United States Department of Agriculture, who kindly detailed Miss Mabel Colcord, Librarian of the Bureau to have charge of the preparation of the manuscript. To her and her assistants as well as to Mr. Strong the Economic Entomologists of the World are indebted for the compilation of this work.

The Index when turned over to the Editor, September 20, 1937, comprised 2950 manuscript pages which would have made approximately 700 printed pages. It was necessary as in preceding Indexes to reduce the size of the volume without seriously impairing its value. The immense number of references made it impracticable to consult every citation and there are doubtless errors of both inclusion and exclusion. There has been a consolidation of references in cases where papers contained notices of many species, especially those of presumably minor economic importance.

The scope of the Index has been extended somewhat to comprise publications from continental North America, including Alaska, Canada, Mexico and the Panama Canal Zone, and in addition Cuba, Puerto Rico, Hawaii, Guam, and some from the Philippines. Only the better established or well known common names of insects have been retained. Those approved by the Committee on Nomenclature of the American Association of Economic Entomologists have been starred(\*). Anonymous articles in the Agricultural Press have been largely excluded and all in Farm papers under headings with numerous citations. The omission of such literature is indicated by a double dagger (‡), and in some cases citations of official press bulletins or circulars, the more ephemeral literature, have been omitted.

The nature of general works is so well indicated in the title that only a few of the more important subdivisions have been indexed.

The publication of this work was authorized by the American Association of Economic Entomologists (See *Journal of Economic Entomology*, 28: 22-23, 1935) and subsequently by action of the Executive Committee in agreement with the Editorial Board the undersigned was appointed to edit and carry the Index through the press.

E. P. FELT,  
*Editor*



# INDEX V TO THE LITERATURE OF AMERICAN ECONOMIC ENTOMOLOGY

JANUARY 1, 1930 TO DECEMBER 31, 1934

Compiled by MABEL COLCORD

The following Index to the Literature of American Economic Entomology for the five-year period January 1, 1930 to December 31, 1934, inclusive, is a continuation of the Banks' Index, 1905-1914, and of the Colcord Indexes, 1915-1929. All of these are modified extensions of the Bibliography of American Economic Entomology, published by the U.S. Department of Agriculture, Division of Entomology (now the Bureau of Entomology and Plant Quarantine), 1889-1905, Pts. I-V by Samuel Henshaw, Pts. VI-VIII, by Nathan Banks.

The plan of the previous indexes has been closely followed. Scientific names of insects and other headings are arranged alphabetically; references are alphabetic by author under the insect name and chronologic under each author. Practically all anonymous articles have been omitted; all mimeographed material has been omitted and also all authorities for insect names except in a few cases where the authority is necessary for identification. In the present Index we have for the first time included references to Puerto Rican and Hawaiian publications. Its scope is the literature of continental North America, including Alaska, Canada, Mexico and the Panama Canal Zone and in addition to those already listed, Cuba, Guam and some Philippine publications.

The references have been made as short as possible and should be readily intelligible after reading the following explanation and referring, when necessary, to the list of abbreviations.

"B" indicates bulletin, "C" circular, "R" report, "PB" press bulletin, "TB" technical bulletin, and "M" memoir. Publications of the various agricultural experiment stations are referred to simply by State abbreviation and number of bulletin, circular or report—e.g., "Fla. B. 241" means Florida Agricultural Experiment Station Bulletin 241. "Fla. Ext. B. 59" means Florida Agricultural Experiment Station Extension Bulletin 59. The New York Cornell Agricultural Experiment Station bulletins are referred to as N.Y. (C) B, the New York Geneva Agricultural Experiment Station bulletins as N.Y. (Gen.) B. The bulletins of the United States Department of Agriculture are "USDA B," the Yearbook articles are "USDA YB," the Farmers' Bulletins are "USDA FB," the Proceedings of the U.S. National Museum have been abbreviated "PUSNM," and the Bulletins of the American Museum of Natural History of New York, "BAMNH."

"P" is used for proceedings, "J" for journal. The words "State" and "annual" are usually omitted in the references, although in a few instances "St." (State) is retained to avoid possible confusion. The form of reference is that now in general use in scientific publications.

The first figure after "B," "R", etc., indicates the number of the volume, if a periodical or of the bulletin or report. The number in parentheses is the number in the volume, and the number following the colon is the page—e.g., "Adams, Amer. Fr. Grow. Mag. 51(2): 3, 1931," indicates an article by Adams in the American Fruit Growers Magazine, vol. 51, no. 2, page 3, published in 1931.

Marginal letters or symbols have the following significance: "n" indicates that the species described is new; a double dagger in parentheses, (‡), preceding the name of the insect means that some of the presumably less important references have been deleted by the editor; "i" indicates that the article is illustrated, "b" that the article contains a bibliography. Starred (\*) common names are those approved by the Committee on Nomenclature of the American Association of Economic Entomologists.



The year of publication has been added to all references as it is frequently of great assistance in determining the article wanted. "N.J. R 1930" might mean either the New Jersey Agricultural Experiment Station Report for 1930 published in 1931, or the Report for 1929 published in 1930. If it reads "N.J. R. f. 1930" there can be no mistake and if 1931 is added, at the end of the reference, the date of actual publication is beyond doubt.

In indexing the monograph of a family, we have made one reference to the whole family under its name and indexed only the new species appearing in it, unless information was given on the life history, habits or control of the species.

In questions of synonymy, standard catalogues have been followed; for example, Leng for Coleoptera, Barnes for Lepidoptera, Aldrich and Curran for Diptera, Van Duzee for Hemiptera, etc. etc. Our systematists at the U.S. National Museum have very kindly determined the more difficult questions of synonymy for

Coleoptera, Dr. E. A. Chapin, Messrs. L. L. Buchanan, W. S. Fisher, H. S. Barber. Lepidoptera, Messrs. Carl Heinrich, August Busck, J. F. Gates Clarke.

Hemiptera, Drs. Harold Morrison (Coccidae), P. W. Mason (Aphididae), Messrs. H. G. Barber (Heteroptera), P. W. Oman (Homoptera).

Orthoptera and Neuroptera, Mr. A. B. Gurney.

Acarina, Mallophaga, Anoplura, Siphonaptera, Dr. H. E. Ewing.

Diptera, Dr. Alan Stone, Messrs. C. T. Greene, D. G. Hall.

Hymenoptera, Messrs. A. B. Gahan, R. A. Cushman, C. F. W. Muesebeck, Miss Grace A. Sandhouse.

As for the earlier Indexes, so for this, all divisions of the Bureau have given helpful suggestions as to matter to be included and as to arrangement. We are especially indebted to Mr. D. L. Van Dine, Dr. B. A. Porter, Dr. P. N. Annand, Mr. W. R. Walton, Mr. J. S. Wade, Dr. F. C. Craighead, Dr. M. W. Blackman, Mr. William Middleton, Mr. W. H. White, Mr. D. J. Caffrey, Dr. F. C. Bishopp, Mr. J. L. Webb, Dr. E. A. Back, Dr. S. B. Fracker, Mr. S. A. Rohwer, Mr. E. R. Sasser, Mr. B. M. Gaddis, Mr. R. W. Harned, Mr. U. C. Loftin, Dr. N. E. McIndoo, Mr. J. I. Hambleton, Mr. R. E. Snodgrass, Mr. C. P. Clausen, Dr. L. A. Hawkins, Dr. C. M. Smith, Mr. R. P. Currie, Mr. J. A. Hyslop. Mr. C. F. W. Muesebeck helped in many difficult decisions. Mr. Lee A. Strong made it possible for us to have adequate assistance for compiling the Index, and Mr. F. H. Spencer arranged for the copying of the manuscript. The greater part of the actual indexing was done by Miss M. G. Beckwith and her two able assistants, Miss Ruth Taylor and Miss Claire Hirschfield. For their unfailing and unstinted service our thanks are especially due. Miss C. R. Barnett, Librarian of the U.S. Department of Agriculture, again gave most helpful cooperation in making available material to be indexed. To the two members of our own Bureau Library staff, Miss I. L. Hawes and Miss A. J. Carabelli, our thanks are again due, for their interest and fine cooperation throughout the long period of compilation.

## BOOKS INDEXED AS A WHOLE OR ONLY THEIR MORE IMPORTANT SUBDIVISIONS

Bailey, L. H. Cultivated conifers in North America. 1933.

Bailey, Vernon. Cave life in Kentucky. 1933.

Beard, Dan. American boys' book of bugs. 1932.

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## LIST OF ABBREVIATIONS

Acad. = Academy	Exch. = Exchange
Adm. = Administrative	Exp. = Experimental
Adv. = Advancement	Extern. = Extermination
Advoc. = Advocate	Farm. = Farmer
Agr. = Agriculture, Agriculturist, Agricultural	Fed. = Federal
Am. or Amer. = American	Fert. = Fertilizer
Ann. = Annals, Annual	Flor. = Florist
App. = Appendix	For. = Forestry
Archiv. = Archives	Fr. = Fruit
Assoc. = Association	Fumig. = Fumigation
B. = Bulletin	Fung. = Fungicide
B.C. = British Columbia	Gard. = Gardeners, Gardening
Bank. = Banker	Gaz. = Gazette
Bd. = Board	Gen. = General
Bien. = Biennial	Gen. when after N.Y. = Geneva
Biol. = Biological	Gentl. = Gentleman
Bost. = Boston	Geog. = Geographic
Br. = Branch	Geol. = Geology
Bur. = Bureau	Gr. = Grain
C. = Circular	Grow. = Grower
C. when after N.Y. = Cornell	Homest. = Homestead
C. Gentl. = Country Gentleman	Hort. = Horticulture, Horticulturist
Can. = Canada	Hosp. = Hospital
Clem. = Clemson	Hyg. = Hygiene, Hygienic
Coll. = College	Illus. = Illustrated
Comm. = Commission	Impl. = Implement
Comp. = Comparative	Indus. = Industrialist
Confer. = Conference	Infec. = Infectious
Cong. = Congress	Infor. = Information
Conserv. = Conservation	Inj. = Injurious
Cont. = Contribution	Ins. = Insect
Conv. = Convention	Insect. = Insecticide
Coop. = Cooperative	Insp. = Inspection
Cranb. = Cranberry	Internat. = International
Cult. = Cultivator	Interst. = Interstate
Cutan. = Cutaneous	J. = Journal
Dairym. = Dairyman	L.I. = Long Island
Dept. = Department	Lab. = Laboratory
Dermat. = Dermatology	Lumberm. = Lumberman
Destr. = Destructive	Mag. = Magazine
Dis. = Disease	Man. = Manual
Dom. = Dominion	Med. = Medicine, Medical
Ec. = Economic	Meet. = Meeting
Ecol. = Ecology	M. = Memoir
Ed. = Education	Met. = Metallurgical
Elev. = Elevator	Mil. = Military
Eng. = Engineering	Mill. = Miller
Ent. = Entomologist, Entomology	Mod. = Modern
	Month. = Monthly

Mus. = Museum  
N. Eng. = New England  
Nat. = National, Naturalist  
Northw. = Northwestern  
Not. = Notices  
Nurs. = Nursery  
Off. = Official  
Ont. = Ontario  
Orch. = Orchard  
P. = Proceedings  
P.B. = Press Bulletin  
Pac. = Pacific  
Path. = Pathological  
Phytopath. = Phytopathological  
Pl. = Plant, Planter  
Poly. = Polytechnic  
Pom. = Pomological  
Pop. = Popular  
Poult. = Poultry  
Prevent. = Preventive  
Proclam. = Proclamation  
Prod. = Producer  
Prog. = Progressive  
Prot. = Protection  
Pub. = Public, Publication  
Quar. = Quarterly  
R. = Report  
Rec. = Record  
Res. = Research  
Rev. = Review  
Roy. = Royal  
Rur. = Rural  
Ry. = Railway

Sec. = Secretary  
Serv. = Service  
Sess. = Session  
Soc. = Society  
So. = South  
South. = Southern  
Sp. = Special  
St. = State  
Sta. = Station  
Statis. = Statistical  
Stockm. = Stockman  
Succ. = Successful  
Sup. = Supplement  
Suppr. = Suppression  
Supt. = Superintendent  
Surg. = Surgical  
Surv. = Survey  
Syn. = Synopsis  
T. = Technical  
Trans. = Transactions  
Trop. = Tropical  
Univ. = University  
USDA B = Bulletin U.S. Dept. Agriculture  
USDA FB = Farmer's Bulletin U.S. Dept. Agriculture  
USDA YB = Yearbook U.S. Dept. Agriculture  
Veg. = Vegetation  
Vet. = Veterinary  
West. = Western  
Wkly. = Weekly  
Zool. = Zoology

# AMERICAN ECONOMIC ENTOMOLOGY

## INDEX OF LITERATURE, 1930-1934

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- Potato scab gnat, *see* *Pnyxia scabiei*
- \*Potato stalk borer, *see* *Trichobaris trinitata* (Say)
- \*Potato stem borer, *see* *Hydroecia micacea* (Esp.)
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West Indian sugar cane mite, *see* Tarsonemus spinipes

\*West Indian sweetpotato weevil, *see* Euscepes batatae (Wtrh.)

\*Western balsam bark beetle, *see* Dryocoetes confusus Swaine

\*Western cedar borer, *see* Trachykele blondeli Marseul

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Western corn root-worm, *see* Diabrotica longicornis

Western dog tick, *see* Dermacentor occidentalis

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\*Western grape rootworm, *see* Adoxus obscurus (L.)

Western hemlock sawfly, *see* Neodiprion tsugae

Western leaf-footed plant bug, *see* Leptoglossus zonatus

Western peach and prune root borer, *see* Conopia opalescens

\*Western peach borer, *see* Conopia opalescens (Hy. Edw.)

\*Western pine beetle, *see* Dendroctonus brevicornis Lec.

\*Western potato flea beetle, *see* Epitrix subcrinita Lec.

\*Western spotted cucumber beetle, *see* Diabrotica soror Lec.

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\*Western striped cucumber beetle, *see* Diabrotica trivittata (Mann.)

Western subterranean termite, *see* Reticulitermes hesperus.

\*Western tent caterpillar, *see* Malacosoma pluvialis (Dyar)

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